

THE COMMISSIONER OF PATENTS AND TRADEMARKS, Washington, D.C. 20231

Enclosed for filing is the patent application of Inventor(s):  
HARM J. W. BELT, CORNELIS P. JANSE

For: AUDIO PROCESSING ARRANGEMENT WITH MULTIPLE SOURCES

**ENCLOSED ARE:**

- [X] Appointment of Associates;  
 [X] Information Disclosure Statement, Form PTO-1449 and copies of documents listed therein;  
 [X] Preliminary Amendment;  
 [X] Specification (17 Pages of Specification, Claims, & Abstract);  
 [X] Declaration and Power of Attorney:  
     (1 Pages of a [ ] fully executed [X] unsigned Declaration);  
 [X] Drawing (9 sheets of [ ] informal [X] formal sheets);  
 [ ] Certified copy of application Serial No. ;  
 [X] Authorization Pursuant to 37 CFR §1.136(a)(3)  
 [ ] Other: **CITATION OF RELATED CASES.**  
 [ ] Assignment to

**FEE COMPUTATION**

| CLAIMS AS FILED                   |              |              |          |                         |
|-----------------------------------|--------------|--------------|----------|-------------------------|
| FOR                               | NUMBER FILED | NUMBER EXTRA | RATE     | BASIC FEE<br>- \$760.00 |
| Total Claims                      | 10 - 20 =    | 0            | X \$18 = | 0.00                    |
| Independent Claims                | 3 - 3 =      | 1            | X \$78 = | 0.00                    |
| Multiple Dependent Claims, if any |              |              | \$260 =  | 0.00                    |
| TOTAL FILING FEE . . . . .        |              |              |          | = \$760.00              |

Please charge Deposit Account No. 14-1270 in the amount of the total filing fee indicated above, plus any deficiencies. The Commissioner is also hereby authorized to charge any other fees which may be required, except the issue fee, or credit any overpayment to Account No. 14-1270.

[ ] Amend the specification by inserting before the first line as a centered heading --Cross Reference to Related Applications--; and insert below that as a new paragraph --This is a continuation-in-part of application Serial No. , filed , which is herein incorporated by reference--.

**CERTIFICATE OF EXPRESS MAILING**

Express Mail Mailing Label No. EL21500469845  
 Date of Deposit May 14, 1999  
 I hereby certify that this paper and/or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Natale A. Manzo  
 Typed Name

*Natale A. Manzo*  
 Signature

*Dicran Halajian*  
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jc564 U.S. PTO

jc594 U.S. PTO

09/310086

05/11/99

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of  
HARM J. E. BELT ET AL.

Atty. Docket  
PHN 16,638V

Serial No.

Group Art Unit

Filed: CONCURRENTLY

Ex.

AUDIO PROCESSING ARRANGEMENT WITH MULTIPLE SOURCES

Honorable Commissioner of Patents and Trademarks  
Washington, D.C. 20231

JCS94 U.S. PTO  
09/310086  
05/11/99

AUTHORIZATION PURSUANT TO 37 CFR §1.136(a)(3)  
AND TO CHARGE DEPOSIT ACCOUNT

Sir:

The Commissioner is hereby requested and authorized to treat any concurrent or future reply in this application requiring a petition for extension of time for its timely submission, as incorporating a petition for extension of time for the appropriate length of time.

Please charge any additional fees which may now or in the future be required in this application, including extension of time fees, but excluding the issue fee unless explicitly requested to do so, and credit any overpayment, to Deposit Account No. 14-1270.

Respectfully submitted,

By Dicran Halajian  
Dicran Halajian, Reg. 39,703  
Attorney  
(914) 333-9607

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

HARM J. W. BELT ET AL.

PHN 16,638V

Serial No.

Group Art Unit

Filed: CONCURRENTLY

Ex.

AUDIO PROCESSING ARRANGEMENT WITH MULTIPLE SOURCES

Honorable Commissioner of Patents and Trademarks  
Washington, D.C. 20231

CITATION OF RELATED CASES

Sir:

Attached is a report which was made by the assignee of the above-identified patent application.

The United States patent applications and issued patents identified in this report may be relevant to the examination of the above-identified patent application inasmuch as they have been identified by an automated search of the assignee's patent portfolio files as having common inventors with and/or subject matter which is classified by the assignee in the same technological field as the above-identified patent application. However, citation of this report is neither an admission that any document noted therein is prior art to the above-identified patent application nor a waiver of the confidential status of any listed patent application under 35 U.S.C. 122.

Respectfully submitted,

By Dicran Halajian  
Dicran Halajian, Reg. 39,703  
Attorney  
(914) 333-9607

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B.D.  
8/22/99  
jc594 U.S. PTO  
09/310086  
05/11/99

BELT, HARM J.  
JANSE, CORNELIS P.

Docket No.: PHN 16638

Patent No.:

OS Codes : BN 0500

CM 2361

Title : AUDIO PROCESSING ARRANGEMENT WITH MULTIPLE

Attorney: HALAJIAN  
Serial No.: 09/196064

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**Common Inventors**

DRIESSEN, LEONARDUS M.  
JANSE, CORNELIS P.  
LAHAIJE, PAUL D.

Docket No.: PHN 11911

Patent No.: 4888698

OS Codes : VD 3000

Title : METHOD FOR STORING A PARCELWISE DIVIDED DIGITAL  
AS WELL AS OF ADDRESSING A DATA PARCEL IN A MASS

Attorney: BARSCHALL  
Serial No.: \_\_\_/110303

DRIESSEN, LEONARDUS M.  
JANSE, CORNELIS P.

Docket No.: PHN 12197

Patent No.: 4954986

OS Codes : VD 3000

Title : METHOD AND APPARATUS FOR STORING DIGITAL DATA  
TOPOLOGICAL NETWORK.

Attorney: SLOBOD  
Serial No.: \_\_\_/224087

JANSE, CORNELIS P.  
DRIESSEN, LEONARDUS M.

Docket No.: PHN 13456

Patent No.: 5754846

OS Codes : VD 3000

Title : METHOD OF STORING A TOPOLOGICAL NETWORK, AND  
APPARATUS FOR IDENTIFYING SERIES OF 1-CELLS IN A

Attorney: BARSCHALL  
Serial No.: 07/769613

JANSE, CORNELIS P.  
VAN DE LAAR, FRANCISCUS

Docket No.: PHN 13543

Patent No.: 5390250

OS Codes : CM 1523

Title : ECHO CANCELLER WITH IMPROVED DOUBLETALK

Attorney: SLOBOD  
Serial No.: 07/810776

JANSE, CORNELIS P.  
MEIJER, JOHANNES M.

Docket No.: PHN 14032

Patent No.: 5404397

OS Codes : CS S300

Title : CONFERENCE SYSTEM WITH AUTOMATIC SPEAKER  
SPEAKER UNIT.

Attorney: BALCONILAMICA  
Serial No.: 08/041802

JANSE, CORNELIS P.

Docket No.: PHN 14673

Patent No.: 5610991

OS Codes : CM 2361

Title : A NOISE REDUCTION SYSTEM AND DEVICE, AND A MOBILE  
STATION.

Attorney: SLOBOD  
Serial No.: 08/350357

JANSE, CORNELIS P.  
TIMMERMANS, PATRICK A.

Docket No.: PHN 14812      Attorney: HALAJIAN  
Patent No.:                      Serial No.: 08/416277  
OS Codes : CM 2361      AE 0900  
Title : SIGNAL AMPLIFIER SYSTEM WITH IMPROVED ECHO

JANSE, CORNELIS P.  
TIMMERMANS, PATRICK A.

Docket No.: PHN 14812A      Attorney: HALAJIAN  
Patent No.:                      Serial No.: 08/728574  
OS Codes : CM 2361      AE 0900  
Title : SIGNAL AMPLIFIER SYSTEM WITH IMPROVED ECHO

JANSE, CORNELIS P.  
TIMMERMANS, PATRICK A.

Docket No.: PHN 14812B      Attorney: HALAJIAN  
Patent No.: 5748751      Serial No.: 08/822958  
OS Codes : CM 2361      AE 0900  
Title : SIGNAL AMPLIFIER SYSTEM WITH IMPROVED ECHO

JANSE, CORNELIS P.  
TIMMERMANS, PATRICK A.

Docket No.: PHN 15249      Attorney: BIREN  
Patent No.: 5768398      Serial No.: 08/626531  
OS Codes : CS S300  
Title : SIGNAL AMPLIFICATION SYSTEM WITH AUTOMATIC

CASTELLO DA COSTA, P.  
JANSE, CORNELIS P.  
TIMMERMANS, PATRICK A.

Docket No.: PHN 15627      Attorney: GOODMAN  
Patent No.: 5740256      Serial No.: 08/762682  
OS Codes : CM 1511      CM 2361  
Title : AN ADAPTIVE NOISE CANCELLING ARRANGEMENT, A NOISE  
SYSTEM AND A TRANSCEIVER.

JANSE, CORNELIS P.

Docket No.: PHN 15835      Attorney: SLOBOD  
Patent No.:                      Serial No.: 08/862021  
OS Codes : CM 1523      CM 2361  
Title : ARRANGEMENT FOR SUPPRESSING AN INTERFERING  
INPUT SIGNAL.

#### Related Technology

VAN DE PLASSCHE, RUDY J

Docket No.: PHA 01137      Attorney: MEETIN  
Patent No.:                      Serial No.: \_\_/809453  
OS Codes : TV 1000      CM 2361  
Title : COMPLEMENTARY VOLTAGE INTERPOLATION CIRCUIT.

VAN DE PLASSCHE, RUDY J

Docket No.: PHA 01137A      Attorney: MEETIN  
Patent No.: 4831379      Serial No.: \_\_/096793  
OS Codes : TV 1000      CM 2361  
Title : COMPLEMENTARY VOLTAGE INTERPOLATION CIRCUIT.

VAN DE PLASSCHE, RUDY J  
BALTUS, PETER G.

Docket No.: PHA 01137V  
Patent No.: 4897656  
OS Codes : TV 1000 CM 2361  
Title : COMPLEMENTARY VOLTAGE INTERPOLATION CIRCUIT WITH  
TRANSMISSION DELAY COMPENSATION.

Attorney: WIEGHAUS  
Serial No.: 07/127867

KAMGAR, FARBOD  
MOTAMED, MARIAM  
ROUPHAEL, ANTOINE J.

Docket No.: PHA 01322  
Patent No.:  
OS Codes : CM 2361  
Title : APPARATUS AND METHOD FOR CODE TRACKING IN AN  
SPECTRUM COMMUNICATIONS SYSTEM.

Attorney: WIEGHAUS  
Serial No.: 08/996668

COOPER, JEFFREY L.  
JOHNSON, BRIAN C.

Docket No.: PHA 21164  
Patent No.: 4542407  
OS Codes : BN 0500  
Title : METHOD AND APPARATUS FOR SCRAMBLING AND  
ION PROGRAMS.

Attorney: MARION  
Serial No.: \_\_\_/503208

HATCH, DOUGLAS J.  
COX, JEFFREY L.

Docket No.: PHA 21201  
Patent No.: 4629999  
OS Codes : BN 0500  
Title : PHASED-LOCKED LOOP CAPABLE OF GENERATING A  
STABLE FREQUENCY SIGNALS.

Attorney: MEETIN  
Serial No.: \_\_\_/565956

KOO, DAVID

Docket No.: PHA 21664  
Patent No.: 5111298  
OS Codes : BN 0500  
Title : METHOD AND APPARATUS FOR COMMUNICATION CHANNEL  
AND SIGNAL RESTORATION.

Attorney: MARION  
Serial No.: 07/693737

KOO, DAVID

Docket No.: PHA 21664A  
Patent No.: 5172232  
OS Codes : BN 0500  
Title : METHOD AND APPARATUS FOR COMMUNICATION CHANNEL  
AND SIGNAL RESTORATION.

Attorney: MARION  
Serial No.: 07/820437

GUAN, ZHI-YUAN

Docket No.: PHA 21846  
Patent No.: 5440347  
OS Codes : BN 0500  
Title : METHOD AND APPARATUS FOR RANDOMIZING TRAINING  
MINIMIZE INTERFERENCE IN DIGITAL TRANSMISSIONS.

Attorney: MARION  
Serial No.: 08/136425

GURVSAMI, ARAVANAN  
HEYMAN, GARY R.  
BABU, KIRAN

Docket No.: PHA 23192  
Patent No.:  
OS Codes : BN 0500  
Title : A METHOD AND APPARATUS FOR IMPROVED COMMUNICATION  
TV TELEPHONY AND DATA TRANSPORT.

Attorney: THORNE  
Serial No.: 08/759667

HARI, THIRUMOORTHY  
WITTIG, KARL R.  
HULYALKAR, SAMIR N.

Docket No.: PHA 23263  
Patent No.:  
OS Codes : BN 0500  
Title : A HARDWARE-OPTIMIZED REED-SOLOMON DECODER FOR BLOCKS.

Attorney: THORNE  
Serial No.: 08/902049

ROUPHAEL, ANTOINE

Docket No.: PHA 23379  
Patent No.:  
OS Codes : CM 2361 CM 2351  
Title : SIGN-CROSS-PRODUCT AUTOMATIC FREQUENCY CONTROL

Attorney: WIEGHAUS  
Serial No.: 09/045354

MOHINDRA, RISHI

Docket No.: PHA 23554  
Patent No.:  
OS Codes : 12 04AD CM 2361  
Title : PULSE DENSITY MODULATION BASED DIGITAL-TO-ANALOG

Attorney: WIEGHAUS  
Serial No.: 09/205975

DOURLAIN, WILLIAM

Docket No.: PHA 23560  
Patent No.:  
OS Codes : BN 0500  
Title : EXPANDED INPUT VOLTAGE RANGE FOR SWITCH-MODE BROADBAND NETWORK.

Attorney: BELK  
Serial No.: 09/207723

ROUPHAEL, ANTOINE J.  
KAMGAR, FARBOD

Docket No.: PHA 23561  
Patent No.:  
OS Codes : CM 2361  
Title : AUTOMATIC FREQUENCY CONTROL LOOP MULTIPATH RAKE RECEIVER.

Attorney: HALAJIAN  
Serial No.: 09/216264

MOHINDRA, RISHI

Docket No.: PHA 23588  
Patent No.:  
OS Codes : CM 2361  
Title : COMPENSATION FOR PHASE ERRORS CAUSED BY CLOCK CDMA COMMUNICATION SYSTEM.

Attorney: WIEGHAUS  
Serial No.: 09/216260

HUGHES, JOHN B.

Docket No.: PHB 32676  
Patent No.: 4354274  
OS Codes : BN 0500  
Title : DIGITAL SIGNAL TRANSMISSION SYSTEM.

Attorney: BIREN  
Serial No.: \_\_\_/194508

VRY, MICHAEL G.  
HALE, JOHN M.

Docket No.: PHB 32830  
Patent No.:  
OS Codes : BN 0500  
Title : DERIVING A CLOCK SIGNAL FROM A RECEIVED DIGITAL

Attorney: RICH  
Serial No.: \_\_\_/436533

SHARPE, ROBIN

Docket No.: PHB 32955  
Patent No.: 4560963  
OS Codes : CM 2361  
Title : ANALOG RC ACTIVE FILTER.

Attorney: BIREN  
Serial No.: \_\_\_/579830

BECKLEY, JOHN C.  
BRENNAND, PETER R.  
MURRAY, BRUCE

Docket No.: PHB 32963  
Patent No.: 4665427  
OS Codes : BN 0500  
Title : METHOD AND APPARATUS FOR CONVERTING C-MAC  
FOR TRANSMISSION OVER A LIMITED BANDWIDTH MEDIUM.

Attorney: MARION  
Serial No.: \_\_\_/585705

ANDREW, DEREK  
JAMES, MICHAEL D.

Docket No.: PHB 33170  
Patent No.: 4723237  
OS Codes : BN 0500  
Title : SIGNAL TRANSMISSION ARRANGEMENT, A TRANSMITTER  
FOR SUCH AN ARRANGEMENT AND A COMMUNICATION

Attorney: MARION  
Serial No.: \_\_\_/860381

DADDS, ALAN F.

Docket No.: PHB 33415  
Patent No.: 4914380  
OS Codes : BN 0500  
Title : SIGNAL RECEIVING ARRANGEMENT.

Attorney: LOBATO  
Serial No.: \_\_\_/281575

STOVE, ANDREW G.

Docket No.: PHB 33670  
Patent No.: 5124707  
OS Codes : CM 2361  
Title : ANALOGUE-TO-DIGITAL CONVERTER.

Attorney: KRAUS  
Serial No.: \_\_\_/740277

HUGHES, JOHN B.

Docket No.: PHB 33751  
Patent No.: 5369406  
OS Codes : CM 2361  
Title : MULTIPLYING DIGITAL-TO-ANALOGUE CONVERTER.

Attorney: FRANZBLAU  
Serial No.: 07/966205

MOORE, PAUL A.

Docket No.: PHB 33972  
Patent No.:  
OS Codes : CM 1132 CM 2361  
Title : IMPROVEMENTS IN OR RELATING TO COMMUNICATIONS

Attorney: SLOBOD  
Serial No.: 08/593954

MOORE, PAUL A.

Docket No.: PHB 33972A  
Patent No.:  
OS Codes : CM 1132 CM 2361  
Title : IMPROVEMENTS IN OR RELATING TO COMMUNICATIONS

Attorney: SLOBOD  
Serial No.: 08/593954

SAUNDERS, SIMON R.  
RAZZELL, CHARLES J.

Docket No.: PHB 33997  
Patent No.: 5892803  
OS Codes : CM 2361 CM 1551  
Title : METHOD OF, AND APPARATUS FOR, SYMBOL TIMING

Attorney: HALAJIAN  
Serial No.: 08/692147



RAZZELL, CHARLES J.

Docket No.: PHB 34028

Patent No.: 5805017

OS Codes : CM 2361

Title : RECEIVER FOR M-ARY FSK SIGNALS.

Attorney: HALAJIAN

Serial No.: 08/769905

KOCH, WOLFGANG

Docket No.: PHD 89059

Patent No.: 5119400

OS Codes : CM 2261 CM 2361

Title : SUMMARY OF THE INVENTION.

Attorney: TREACY

Serial No.: \_\_\_/508031

HEINLEIN, WERNER

Docket No.: PHD 90010

Patent No.: 5121088

OS Codes : BN 0500

Title : FREQUENCY RESPONSE EQUALIZER.

Attorney: GOODMAN

Serial No.: \_\_\_/644070

BAIER, ALFRED

Docket No.: PHD 90216

Patent No.: 5307374

OS Codes : CM 2261 CM 2361

Title : RECEIVER FOR A DIGITAL TRANSMISSION SYSTEM.

Attorney: TREACY

Serial No.: 07/797871

MEYER, PETER

RUHL, HANS-WILHELM

Docket No.: PHD 91060

Patent No.:

OS Codes : SP 0100 CM 2361

Title : CIRCUIT ARRANGEMENT FOR SPEECH RECOGNITION.

Attorney: TIERNEY

Serial No.: 07/865399

MEYER, PETER

RUHL, HANS-WILHELM

Docket No.: PHD 91060A

Patent No.:

OS Codes : SP 0100 CM 2361

Title : CIRCUIT ARRANGEMENT FOR SPEECH RECOGNITION.

Attorney: TIERNEY

Serial No.: 08/090564

MEYER, PETER

RUHL, HANS-WILHELM

Docket No.: PHD 91060B

Patent No.:

OS Codes : SP 0100 CM 2361

Title : CIRCUIT ARRANGEMENT FOR SPEECH RECOGNITION.

Attorney: TIERNEY

Serial No.: 08/318033

MEYER, PETER

RUHL, HANS-WILHELM

Docket No.: PHD 91060C

Patent No.:

OS Codes : SP 0100 CM 2361

Title : CIRCUIT ARRANGEMENT FOR SPEECH RECOGNITION.

Attorney: TIERNEY

Serial No.: 08/863391

MEYER, PETER

RUHL, HANS-WILHELM

Docket No.: PHD 91060D

Patent No.: 5878392

OS Codes : SP 0100 CM 2361

Title : CIRCUIT ARRANGEMENT FOR SPEECH RECOGNITION.

Attorney: TIERNEY

Serial No.: 08/863391

KELLERMANN, WALTER

Docket No.: PHD 93131  
Patent No.: 5602962  
OS Codes : CM 2361  
Title : MOBILE RADIO SET COMPRISING A SPEECH PROCESSING

Attorney: SCHAIER  
Serial No.: 08/302139

MARTIN, RAINER

Docket No.: PHD 94082  
Patent No.: 5647006  
OS Codes : CM 2361 CM 1511  
Title : MOBILE RADIO TERMINAL.

Attorney: SCHAIER  
Serial No.: 08/493401

BAUER, HARALD  
LORENZ, DIETMAR  
MEYER, PETER  
WOUDSMA, ROBERTO

Docket No.: PHD 96091  
Patent No.:  
OS Codes : CM 2361 CM 2261  
Title : SIGNAL PROCESSOR.

Attorney: HALAJIAN  
Serial No.: 09/011673

BAUER, HARALD  
KEMPF, PETER  
LORENZ, DIETMAR  
MEYER, PETER

Docket No.: PHD 96107  
Patent No.:  
OS Codes : CM 2361 CM 2261  
Title : SIGNAL PROCESSOR.

Attorney: HALAJIAN  
Serial No.: 08/895407

HAJJ CHEHADE, MOHAMMED  
LECAT, JEAN  
TARTOIS, CLAUDE

Docket No.: PHF 81573  
Patent No.: 4535296  
OS Codes : BN 0500  
Title : FM-DEMODULATOR.

Attorney: MARION  
Serial No.: \_\_\_/397254

TSIRONIS, CHRISTOS

Docket No.: PHF 82514  
Patent No.:  
OS Codes : BN 0500  
Title : USE OF A FIELD EFFECT TRANSISTOR HAVING A DUAL INTERMEDIATE OHMIC ISLAND FOR THE REJECTION OF

Attorney: KRAUS  
Serial No.: \_\_\_/469593

TSIRONIS, CHRISTOS

Docket No.: PHF 82514A  
Patent No.: 4841169  
OS Codes : BN 0500  
Title : DUAL-GATE FET AMPLIFIER-MIXER WITH INTERMEDIATE FOR REJECTING A FREQUENCY BAND.

Attorney: KRAUS  
Serial No.: \_\_\_/833571

TSIRONIS, CHRISTOS

Docket No.: PHF 83542  
Patent No.: 4599581  
OS Codes : BN 0500  
Title : TEMPERATURE STABILIZING MICROWAVE OSCILLATOR

Attorney: EASON  
Serial No.: \_\_\_/614186

HORVAT, PHILIPPE

Docket No.: PHF 84505  
Patent No.: 4600890  
OS Codes : BN 0500  
Title : DEMODULATOR COMPRISING A PHASE-LOCKED LOOP.

Attorney: MARION  
Serial No.: \_\_\_/693916

HAJJ-CHEHADE, MOHAMMED

Docket No.: PHF 84532  
Patent No.: 4605904  
OS Codes : BN 0500  
Title : PHASE LOCKED LOOP FREQUENCY DEMODULATOR HAVING AN  
BANDWIDTH.

Attorney: RICH  
Serial No.: \_\_\_/731815

CAPRARESE, VINCENT  
CHRETIEN, THIERRY  
DAUVILLIER, RICHARD

Docket No.: PHF 85526  
Patent No.: 4908860  
OS Codes : BN 0500 TV 3000  
Title : SYSTEM FOR THE SECRET TRANSMISSION OF AUDIO  
TELEVISION RECEIVER FOR RECEIVING SUCH SIGNALS.

Attorney: MARION  
Serial No.: \_\_\_/853296

DESPERBEN, LYDIE  
SARI, HIKMET  
MORIDI, SAID

Docket No.: PHF 85532  
Patent No.: 4687999  
OS Codes : BN 0500  
Title : CIRCUIT FOR RECOVERING THE CARRIER WAVE IN  
TRANSMISSION SYSTEMS.

Attorney: BARSCHALL  
Serial No.: \_\_\_/855527

RAMMOS, EMMANUEL  
BIZERY, BERNARD M.

Docket No.: PHF 85548  
Patent No.: 4743915  
OS Codes : BN 0500  
Title : FOUR-HORN RADIATING MODULES WITH INTEGRAL POWER  
SUPPLY NETWORK.

Attorney: KRAUS  
Serial No.: \_\_\_/870275

LE QUEAU, MARCEL

Docket No.: PHF 85552  
Patent No.:  
OS Codes : BN 0500  
Title : DIGITAL QUADRATURE FILTER AND FREQUENCY-MODULATED  
NAL DEMODULATOR COMPRISING SUCH A FILTER.

Attorney: BIREN  
Serial No.: \_\_\_/876323

LE QUEAU, MARCEL

Docket No.: PHF 85552A  
Patent No.: 4799025  
OS Codes : BN 0500  
Title : DIGITAL FM DEMODULATOR USING DIGITAL QUADRATURE

Attorney: BIREN  
Serial No.: \_\_\_/102812

DAUTRICHE, PIERRE B.

Docket No.: PHF 85584  
Patent No.: 4727597  
OS Codes : BN 0500  
Title : MIXER ARRANGEMENT.

Attorney: MARION  
Serial No.: \_\_\_/927781

HORVAT, PHILIPPE

Docket No.: PHF 86523  
Patent No.: 4856085  
OS Codes : BN 0500  
Title : FM RECEIVER WITH IMPROVED ADJACENT-CHANNEL

Attorney: TREACY  
Serial No.: \_\_\_/028936

SALEMBIER, PHILIPPE  
LAMNABHI, MOUSTANIR

Docket No.: PHF 87561  
Patent No.: 4879729  
OS Codes : BN 0500  
Title : APPARATUS FOR THE DECODING CODED FREQUENCY

Attorney: LOBATO  
Serial No.: \_\_\_/223459

SARI, HIKMET

Docket No.: PHF 87573  
Patent No.:  
OS Codes : BN 0500 BB 1573  
Title : CIRCUIT FOR RECOVERING THE CARRIER IN DIGITAL SYSTEMS.

Attorney: BARSCHALL  
Serial No.: \_\_\_/249614

SARI, HIKMET

Docket No.: PHF 87573A  
Patent No.: 4958360  
OS Codes : BN 0500 BB 1573  
Title : CIRCUIT FOR RECOVERING THE CARRIER IN DIGITAL SYSTEMS.

Attorney: BARSCHALL  
Serial No.: \_\_\_/420681

MILLET, GUY

Docket No.: PHF 89523  
Patent No.: 5168502  
OS Codes : CM 2361  
Title : METHOD OF INFORMATION TRANSMISSION IN A NETWORK TRANSMISSION OVER A RADIO CHANNEL AND SYSTEM FOR

Attorney: TREACY  
Serial No.: \_\_\_/496551

PODVIN, DOMINQUE

Docket No.: PHF 89591  
Patent No.: 5142697  
OS Codes : BN 0500  
Title : BALANCED HIGH-FREQUENCY MIXER HAVING A BALUN

Attorney: GOODMAN  
Serial No.: \_\_\_/576323

GRIS, JOEL

Docket No.: PHF 89619  
Patent No.: 5126702  
OS Codes : BN 0500  
Title : CURRENT SUPPLY MEANS FOR WIDEBAND DISTRIBUTION.

Attorney: GOODMAN  
Serial No.: \_\_\_/622920

PHILIPPE, PASCAL

Docket No.: PHF 91585  
Patent No.: 5389891  
OS Codes : CM 2361  
Title : SEMICONDUCTOR DEVICE COMPRISING A TWO-STAGE AMPLIFIER.

Attorney: FRANZBLAU  
Serial No.: 07/995452

PHILIPPE, PASCAL

Docket No.: PHF 91586  
Patent No.: 5323123  
OS Codes : CM 2361  
Title : INTEGRATED CIRCUIT COMPRISING A VARIABLE-GAIN

Attorney: BIREN  
Serial No.: 07/995099

MORIDI, SAID;  
MARTINEZ, GEORGES;

Docket No.: PHF 93555  
Patent No.: 5619540  
OS Codes : BN 0500  
Title : TRANSMISSION SYSTEM USING BLOCK-CODED OR  
MODULATIONS, RECEIVER AND DECODER FOR SUCH A

Attorney: EASON  
Serial No.: 08/283456

BOTTO, JEAN-LUC  
LEPITRE, DIDIER

Docket No.: PHF 93558  
Patent No.:  
OS Codes : BN 0500 BB 1543  
Title : TRANSMISSION SYSTEM AND MODEM UTILIZING CODED

Attorney: BARSCHALL  
Serial No.: 08/304107

BOTTO, JEAN-LUC  
LEPITRE, DIDIER

Docket No.: PHF 93558A  
Patent No.: 5604772  
OS Codes : BN 0500 BB 1543  
Title : TRANSMISSION SYSTEM AND MODEM UTILIZING CODED

Attorney: BARSCHALL  
Serial No.: 08/614294

MARTINEZ, GEORGES  
GUILLAUD, JEAN-MICHEL

Docket No.: PHF 94546  
Patent No.: 5644606  
OS Codes : BN 0500  
Title : DIGITAL TRANSMISSION SYSTEM WITH TWO

Attorney: BIREN  
Serial No.: 08/518872

GUILLAUD, JEAN-MICHEL  
MARTINEZ, GEORGES

Docket No.: PHF 94552  
Patent No.: 5594760  
OS Codes : BN 0500 BN 0400  
Title : AUTOMATIC GAIN CONTROL CIRCUIT AND APPARATUS  
A CIRCUIT.

Attorney: MCDERMOTT  
Serial No.: 08/525990

DAFFARA, FLAVIO  
ADAMI, OTTAVIO

Docket No.: PHF 94563  
Patent No.: 5687165  
OS Codes : BN 0500  
Title : TRANSMISSION SYSTEM AND RECEIVER FOR ORTHOGONAL  
DIVISION MULTIPLEXING SIGNALS, COMPRISING A

Attorney: BIREN  
Serial No.: 08/548245

BRAJAL, AMERICO  
CHOULY, ANTOINE

Docket No.: PHF 95514  
Patent No.: 5796814  
OS Codes : BN 0500  
Title : DIGITAL TRANSMISSION SYSTEM COMPRISING A RECEIVER  
CASCADED EQUALIZERS.

Attorney: KRAUS  
Serial No.: 08/618933

MORIDI, SAID

Docket No.: PHF 95534  
Patent No.: 5862191  
OS Codes : BN 0500  
Title : DIGITAL COMMUNICATIONS SYSTEM COMPRISING A  
INCLUDES A TIMING RECOVERY DEVICE.

Attorney: EASON  
Serial No.: 08/662711

MORIDI, SAID

Docket No.: PHF 95534A      Attorney: EASON  
Patent No.:      Serial No.: 09/132400  
OS Codes : BN 0500  
Title : DIGITAL COMMUNICATIONS SYSTEM COMPRISING A  
INCLUDES A TIMING RECOVERY DEVICE.

CHOULY, ANTOINE  
BRAJAL, AMERICO  
GIANELLA, DAVID

Docket No.: PHF 96562      Attorney: EASON  
Patent No.:      Serial No.: 09/011565  
OS Codes : BN 0500      BN 0400  
Title : PUNCTURED CONVOLUTIONAL CODING DIGITAL

CHOULY, ANTOINE  
GIANELLA, DAVID

Docket No.: PHF 96623      Attorney: EASON  
Patent No.:      Serial No.: 08/987695  
OS Codes : BN 0500      BN 0400  
Title : DIGITAL TRANSMISSION SYSTEM AND METHOD COMPRISING  
CODE COMBINED WITH A MULTIDIMENSIONAL MODULATION.

CHOULY, ANTOINE  
BRAJAL, AMERICO  
GIANELLA, DAVID

Docket No.: PHF 96624      Attorney: EASON  
Patent No.:      Serial No.: 08/987694  
OS Codes : BN 0500      BN 0400  
Title : DIGITAL TRANSMISSION SYSTEM AND METHOD COMPRISING  
PRODUCT CODE COMBINED WITH A QUADRATURE AMPLITUDE

CHOULY, ANTOINE  
BRAJAL, AMERICO

Docket No.: PHF 97614      Attorney: EASON  
Patent No.:      Serial No.: 09/193621  
OS Codes : BN 0500  
Title : DIGITAL TRANSMISSION SYSTEM, DECODER AND DECODING

ROULLET, PIERRE

Docket No.: PHF 97627      Attorney: HALAJIAN  
Patent No.:      Serial No.: 09/207531  
OS Codes : CM 2361  
Title : TRANSMISSION SYSTEM COMPRISING AT LEAST A  
AND A CONNECTION STATION, A STATION INCLUDING A

GROENEWEGER, W.

Docket No.: PHN 10219      Attorney: MARION  
Patent No.: 4532543      Serial No.: \_\_\_/448563  
OS Codes : BN 0500  
Title : COMMUNITY ANTENNA ARRANGEMENT.

VRIS, LODEWIJK B.

Docket No.: PHN 10262      Attorney: MEETIN  
Patent No.: 4541095      Serial No.: \_\_\_/465742  
OS Codes : BN 0500  
Title : SYSTEM FOR COMMUNICATION BY WAY OF REPEATEDLY  
MESSAGES, AND STATIONS FOR USE IN SUCH A SYSTEM.

ALMERING, PETRUS C.  
ZWAGA, BOCKE

Docket No.: PHN 10843  
Patent No.:  
OS Codes : BN 0500  
Title : ARRANGEMENT FOR RESTORING THE L.F. CONTENT OF A SIGNAL.

Attorney: EASON  
Serial No.: \_\_/670248

ALMERING, PETRUS C.  
ZWAGA, BOCKE

Docket No.: PHN 10843A  
Patent No.: 4709158  
OS Codes : BN 0500  
Title : ARRANGEMENT FOR RESTORING THE L.F. CONTENT OF A SIGNAL.

Attorney: EASON  
Serial No.: \_\_/040699

CLAASEN, THEODOOR A.C.M  
BEENKER, GERARDUS F.MVA  
MEIJER, JOHANNES M.

Docket No.: PHN 10960  
Patent No.: 4672633  
OS Codes : BN 0500  
Title : DATA TRANSMISSION SYSTEM.

Attorney: BARSCHALL  
Serial No.: \_\_/705779

CLAASEN, THEODOOR A.C.M  
BEENKER, GERARDUS F.MVA  
MEIJER, JOHANNES M.

Docket No.: PHN 10961  
Patent No.: 4660216  
OS Codes : BN 0500  
Title : TRANSMISSION SYSTEM FOR THE TRANSMISSION OF DATA IN A MODULATION BAND.

Attorney: BARSCHALL  
Serial No.: \_\_/707701

BUIJS, JOHANNES H.

Docket No.: PHN 11043  
Patent No.: 4642590  
OS Codes : BN 0500  
Title : FREQUENCY MULTIPLIER HAVING OPEN AND SHORT RESONATING A MULTIPLIED OUTPUT FREQUENCY.

Attorney: EASON  
Serial No.: \_\_/733273

THOMMEN, WERNER F.

Docket No.: PHN 11395  
Patent No.: 4672239  
OS Codes : 12 04AA CM 2361  
Title : SAMPLE-AND-HOLD CIRCUIT ARRANGEMENT.

Attorney: FRANZBLAU  
Serial No.: \_\_/861161

THOMMEN, WERNER F.

Docket No.: PHN 11395A  
Patent No.: 4764689  
OS Codes : 12 04AA CM 2361  
Title : SAMPLE-AND-HOLD CIRCUIT ARRANGEMENT.

Attorney: FRANZBLAU  
Serial No.: \_\_/053770

BERGMANS, JOHANNES W.  
CLAASEN, THEODOOR A.  
VAN GERWEN, PETRUS J.

Docket No.: PHN 11618  
Patent No.: 4835765  
OS Codes : BN 0500  
Title : ARRANGEMENT FOR FULL-DUPLEX DATA TRANSMISSION CIRCUITS.

Attorney: LOBATO  
Serial No.: \_\_/002080

VELDHUIS, RAYMOND N.

Docket No.: PHN 11716      Attorney: EASON  
Patent No.:      Serial No.: 06/898460  
OS Codes : CM 1243      CM 2361  
Title : METHOD OF AND ARRANGEMENT FOR RESTORING INVALID  
EQUIDISTANTLY SAMPLED SIGNAL

VELDHUIS, RAYMOND N.

Docket No.: PHN 11716A      Attorney: EASON  
Patent No.: 5224061      Serial No.: 07/531697  
OS Codes : CM 1243      CM 2361  
Title : METHOD OF AND ARRANGEMENT FOR RESTORING INVALID  
EQUIDISTANTLY SAMPLED SIGNAL

VELDHUIS, RAYMOND N.

Docket No.: PHN 11717      Attorney: TREACY  
Patent No.: 4839843      Serial No.: \_\_/898464  
OS Codes : CM 1243      CM 2361  
Title : METHOD AND ARRANGEMENT FOR CORRECTING A SEQUENCE  
SAMPLES OF AN EQUIDISTANTLY SAMPLED SIGNAL.

BERGMANS, JOHANNES W.  
CLAASEN, THEODOOR A.  
VAN GERWEN, PETRUS J.

Docket No.: PHN 12010      Attorney: BARSCHALL  
Patent No.: 4856026      Serial No.: \_\_/143914  
OS Codes : BN 0500  
Title : DATA TRANSMISSION SYSTEM COMPRISING SMEARING

JANSSEN, GERARDUS J.  
VERLIJSDONK, ANTONIUS P

Docket No.: PHN 12144      Attorney: MARION  
Patent No.: 4894845      Serial No.: \_\_/201512  
OS Codes : BN 0500  
Title : RECEIVER FOR A PHASE-SHIFT KEYED CARRIER SIGNAL.

BERGMANS, JOHANNES W.  
WONG, HO W.

Docket No.: PHN 13673      Attorney: GOODMAN  
Patent No.: 5291523      Serial No.: 07/869409  
OS Codes : BN 0500      CM 1553  
Title : VITERBI RECEIVER WITH IMPROVED TIMING MEANS.

DIJKMANS, EISE C.

Docket No.: PHN 14356      Attorney: GATHMAN  
Patent No.: 5418493      Serial No.: 08/185637  
OS Codes : 12 04AA      CM 2361  
Title : DIFFERENTIAL AMPLIFIER WITH COMMON-MODE

DE BOT, PAULUS G.

Docket No.: PHN 14675      Attorney: BARSCHALL  
Patent No.: 5581578      Serial No.: 08/350201  
OS Codes : BN 0500  
Title : A DIGITAL COMMUNICATION SYSTEM AND A RECEIVER FOR  
SUCH A SYSTEM.



BAGGEN, CONSTANT P.

Docket No.: PHN 15189  
Patent No.: 5799033  
OS Codes : BN 0500 IT E200  
Title : METHOD OF ERROR PROTECTED TRANSMISSION, METHOD OF PROTECTED RECEPTION OF DATA AND TRANSMISSION

Attorney: BELK  
Serial No.: 08/595093

HOLLMANN, HENDRIK D.  
BAGGEN, CONSTANT P.

Docket No.: PHN 15256  
Patent No.: 5737252  
OS Codes : BN 0500 IT E200  
Title : CIRCUIT ARRANGEMENT COMPRISING A PERMUTATION UNIT OF PROCESSING A BATCH OF ITEMS.

Attorney: GATHMAN  
Serial No.: 08/595089

DE BART, ABRAHAM J.  
STEENHOF, FRITS A.

Docket No.: PHN 15995  
Patent No.:  
OS Codes : BN 0500  
Title : TRANSMISSION SYSTEM WITH IMPROVED LOCK DETECTION.

Attorney: KRAUS  
Serial No.: 08/927886

VAN DEN HOMBERG, J.  
PHILIPS, KATHLEEN J.

Docket No.: PHN 16493  
Patent No.:  
OS Codes : AE 3000 CM 2361  
Title : DEVICE FOR AMPLIFYING DIGITAL SIGNALS.

Attorney: GOODMAN  
Serial No.: 09/129498

RAPELI, JUHA

Docket No.: PHN 16590  
Patent No.:  
OS Codes : CM 2361  
Title : IMPROVED AUDIO REPRODUCTION ARRANGEMENT AND TERMINAL.

Attorney: HALAJIAN  
Serial No.: 09/179167

FABLET, ERIC

Docket No.: PHN 16703  
Patent No.:  
OS Codes : CM 2361  
Title : A METHOD FOR OPERATING A PROXIMITY PRESENTATION DEVICE THAT CONVERTS VARIOUS

Attorney: MAK  
Serial No.: 09/218552

SELBACK, BERND  
VARY, PETER

Docket No.: PHT 82342  
Patent No.: 4700394  
OS Codes : CM 2361  
Title : METHOD OF RECOGNIZING SPEECH PAUSES.

Attorney: EASON  
Serial No.: \_\_\_/552998

SELBACK, BERND  
VARY, PETER

Docket No.: PHT 82343  
Patent No.: 4682361  
OS Codes : CM 2361  
Title : METHOD OF RECOGNIZING SPEECH PAUSES.

Attorney: BARSCHALL  
Serial No.: \_\_\_/552994